

# ELECTRONIC GRIP-FRAME FOR A PAINT-BALL MARKER

## Abstract

20 A grip frame 21 replaces an existing grip frame 1 on a paintball marker in order to convert said paintball marker from a mechanically operated paintball marker into an electro-pneumatic paintball marker. The electronic grip frame 21 utilises an optical sensor in order to detect the operation of a trigger 29 and a second optical sensor to detect the presence of objects within the breech of the paintball marker. Electrical signals from these sensors are taken to an electronic circuit board 24, which controls the operation of two solenoids (one shown 26) in order to fire and re-cock the paintball marker. A user interface comprising pushbuttons 12, 13, 14 and a multi-character display 16, allows the user to define how the grip frame 21 functions.